Amendments to the Claims

Please amend claims 1, 4, and 5 as provided below.

Please cancel claim 2 without prejudice or disclaimer.

The listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for identifying an inhibitor of cysteine:glucosaminyl inositol ligase comprising:

   a) contacting a candidate compound with a cysteine:glucosaminyl inositol ligase in the presence of a cysteine and a glucosaminyl inositol, under suitable conditions, and

   b) determining the presence or absence of ligation of the cysteine to the glucosaminyl inositol,

   wherein the cysteine:glucosaminyl inositol ligase is characterized as having:

   i) an amino acid sequence with 54% or more sequence identity to SEQ ID NO: 2 or 4, and

   ii) cysteine:glucosaminyl inositol ligase activity, and

   wherein the substantial absence of the ligation is indicative of a candidate compound that inhibits activity of the ligase.

2. (Canceled)

3. (Original) The method of claim 1, wherein the cysteine is L-cysteine.

4. (Withdrawn – Currently Amended) The method of claim 1, wherein the ~~derivative~~ glucosaminyl inositol is D-glucosamine.

5. (Withdrawn – Currently Amended) The method of claim 1, wherein the ~~derivative of~~ glucosaminyl inositol is ~~a fluorescent derivative of glucosaminyl inositol~~ derivatized with monobromobimane (mBBr).

6. (Original) The method of claim 1, wherein the conditions comprise the presence of ATP.

7. (Original) The method of claim 6, wherein the glucosaminyl inositol is 1D-*myo*-inosityl 2-amino-2-deoxy-α-D-glucopyranoside.

8. (Original) The method of claim 1, wherein the ligase is produced in an actinomycete.

9. (Original) The method of claim 1, wherein the candidate compound is a polypeptide, polynucleotide or small molecule.

Claims 10-127 (Canceled)